

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PC-21013981	FOR FURTHER ACTION <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. PCT/SE 2004/001049	International filing date (day/month/year) 30 June 2004	(Earliest) Priority Date (day/month/year) 4 July 2003
Applicant Affibody AB et al		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☒ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☒ Certain claims were found unsearchable (see Box No. II)

3. ☐ Unity of invention is lacking (see Box No. III)

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

Polypeptides having binding affinity for HER2:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 20

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE 2004/001049

Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

a. type of material

- ☒ a sequence listing
☐ table(s) related to the sequence listing

b. format of material

- ☒ in written format
☒ in computer readable form

c. time of filing/furnishing

- ☒ contained in the international application as filed
☒ filed together with the international application in computer readable form
☐ furnished subsequently to this Authority for the purposes of search

2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments:

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: **47, 49**
because they relate to subject matter not required to be searched by this Authority, namely:
see next page
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

Claims 47,49 relate to methods of treatment of the human or animal body by surgery or by therapy/diagnostic methods practised on the human or animal body/Rule. 39.1(iv). Nevertheless, a search has been executed for these claims. The search has been based on the alleged effects of the compounds/compositions.

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C07K 14/31, A61P 35/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C07K, A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI-DATA, PAJ, BIOSIS, MEDLINE, CHEM ABS DATA, EMBASE, REGISTRY, EBI

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 0208263 A2 (GOT-A-GENE AB), 31 January 2002 (31.01.2002), claim 18&25	1-57
A	WO 0063243 A1 (PHARMACIA & UPJOHN AB), 26 October 2000 (26.10.2000)	1-57
A	NATURE BIOTECHNOLOGY, volume 15, August 1997, Karin Nord et al: "Binding proteins selected from combinatorial libraries of an alpha-helical bacterial receptor domain", pages 772-777	1-57
A	WO 0101748 A2 (GENENTECH, INC.), 11 January 2001 (11.01.2001)	1-57

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

- * Special categories of cited documents:
- * "A" document defining the general state of the art which is not considered to be of particular relevance
 - * "E" earlier application or patent but published on or after the international filing date
 - * "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
 - * "O" document referring to an oral disclosure, use, exhibition or other means
 - * "P" document published prior to the international filing date but later than the priority date claimed

* "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

* "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

* "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

* "&" document member of the same patent family

Date of the actual completion of the international search

20 October 2004

Date of mailing of the international search report

01-11-2004

Name and mailing address of the ISA/
Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. +46 8 666 02 86

Authorized officer

Terese Persson/Els
Telephone No. +46 8 782 25 00

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 0023580 A1 (AFFIBODY TECHNOLOGY SWEDEN AB ET AL), 27 April 2000 (27.04.2000) /	21-23
	--	
P,X	Protein Engineering, Design & Selection, vol. 17, no. 5, M. Wikman et al: "Selection and characterization of HER2/neu-binding affibody ligands, pages 455-462	1-57

INTERNATIONAL SEARCH REPORT

Information on patent family members

03/09/2004

International application No.

PCT/SE 2004/001049

WO	0208263	A2	31/01/2002	AU	7087901	A	05/02/2002
				BR	0112624	A	01/07/2003
				CA	2413851	A	31/01/2002
				CN	1443243	T	17/09/2003
				CZ	20030152	A	14/05/2003
				EP	1301613	A	16/04/2003
				GB	0017720	D	00/00/0000
				IL	153879	D	00/00/0000
				JP	2004504062	T	12/02/2004
				NO	20030239	A	18/03/2003
				NZ	524251	A	30/07/2004
				US	20040132007	A	08/07/2004

WO	0063243	A1	26/10/2000	AU	4162400	A	02/11/2000
				AU	5664999	A	14/03/2000
				EP	1179014	A	13/02/2002
				JP	2002542259	T	10/12/2002
				SE	9901379	D	00/00/0000
				US	6602977	B	05/08/2003

WO	0101748	A2	11/01/2001	AU	6066900	A	22/01/2001
				CA	2373721	A	11/01/2001
				EP	1189931	A	27/03/2002
				IL	147271	D	00/00/0000
				JP	2003503075	T	28/01/2003
				US	20030171278	A	11/09/2003

WO	0023580	A1	27/04/2000	AU	773368	B	20/05/2004
				AU	6353299	A	08/05/2000
				CA	2347960	A	27/04/2000
				EP	1123389	A	16/08/2001
				GB	9823071	D	00/00/0000
				JP	2002527107	T	27/08/2002
				NO	20011969	A	19/06/2001
				ZA	200103252	A	22/07/2002

BEST AVAILABLE COPY